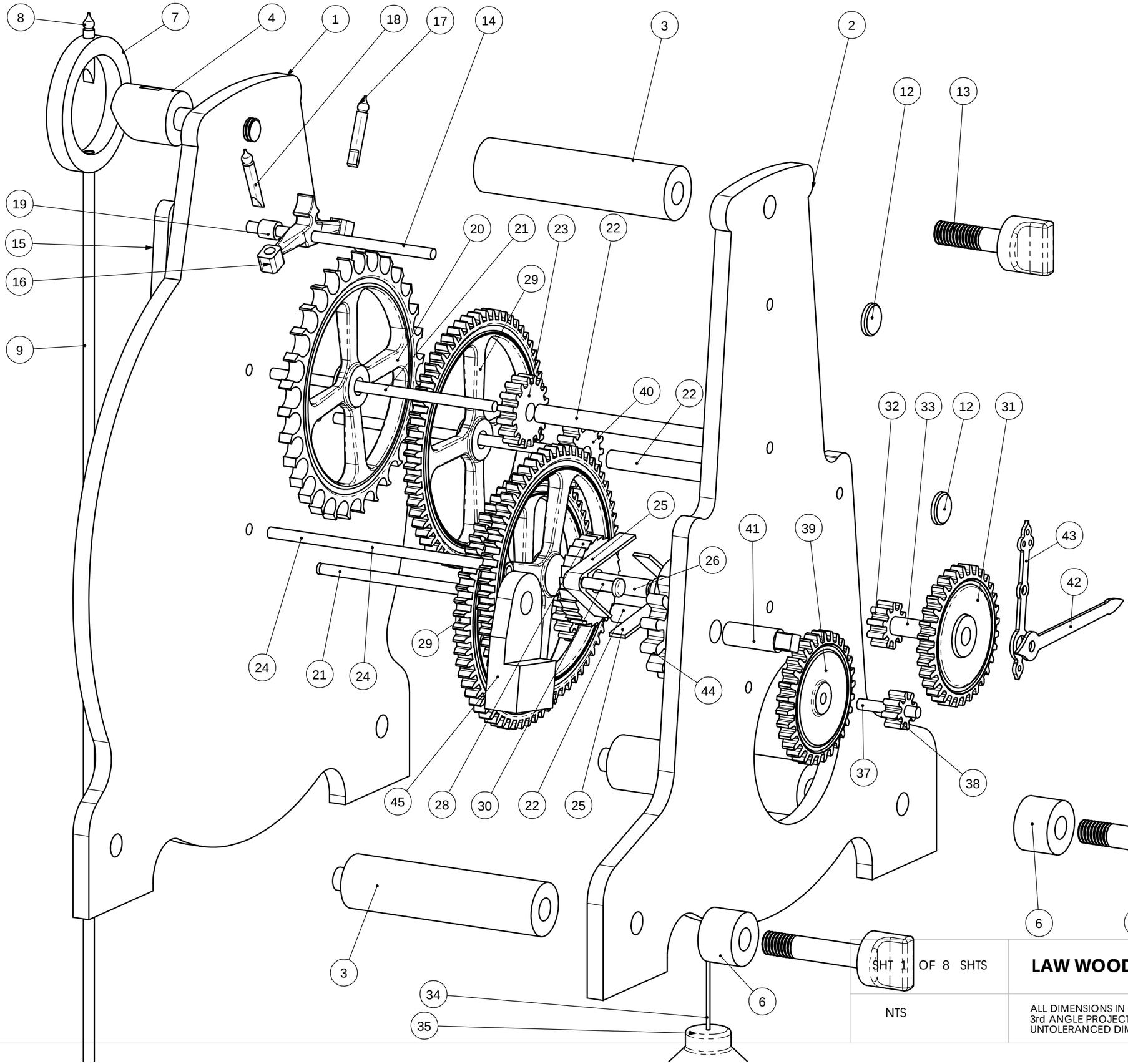
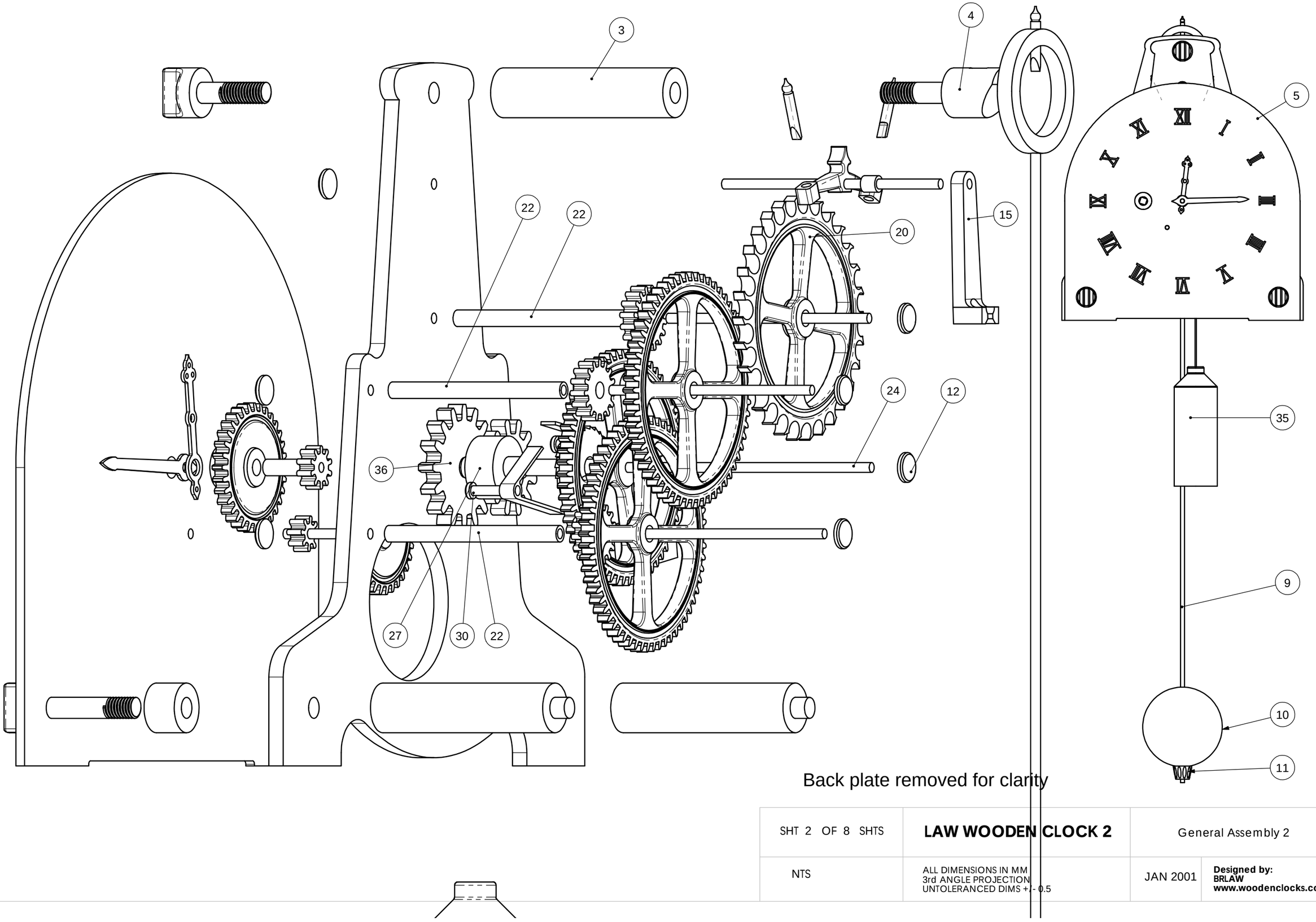


ITEM	QTY	PART NO.	DESCRIPTION
1	1	Back	
2	1	Front	
3	3	Spacer top	
4	1	Pendulum hanger	
5	1	Clock dial	6mm Perspex
6	2	Dial spacer	
7	1	Pendulum head	
8	1	Pendulum pivot	
9	1	Pendulum rod	
10	1	Pendulum bob	
11	1	Pendulum nut	
12	7	Shaft cover	
13	3	Screw	
14	1	Shaft 151	Steel
15	1	Yoke	
16	1	Escape	
17	1	Pallet 2	
18	1	Pallet 1	
19	1	Yoke spacer	
20	1	Timing wheel	
21	3	Shaft 140	Steel
22	3	Sleeve 119	
23	1	Gear 16 teeth	
24	1	Shaft185	Steel
25	2	Pawl	
26	1	Sleeve 70	
27	1	Drum	
28	1	Ratchet	
29	3	Gear 60 teeth	
30	2	Pawl pin	
31	1	Gear 32 teeth	
32	1	Gear 10 teeth	
33	1	Sleeve 18	
34	1	Rope	
35	1	Weight	
36	1	Gear 16 teeth DP6	
37	1	Shaft 30	Steel
38	1	Gear 8 teeth	
39	1	Gear 30teeth	
40	2	Gear 15 teeth	
41	1	Key shaft	
42	1	Minute hand	
43	1	Hour hand	
44	1	Gear 12teeth DP6	
45	1	Winder support	

Dial removed for clarity

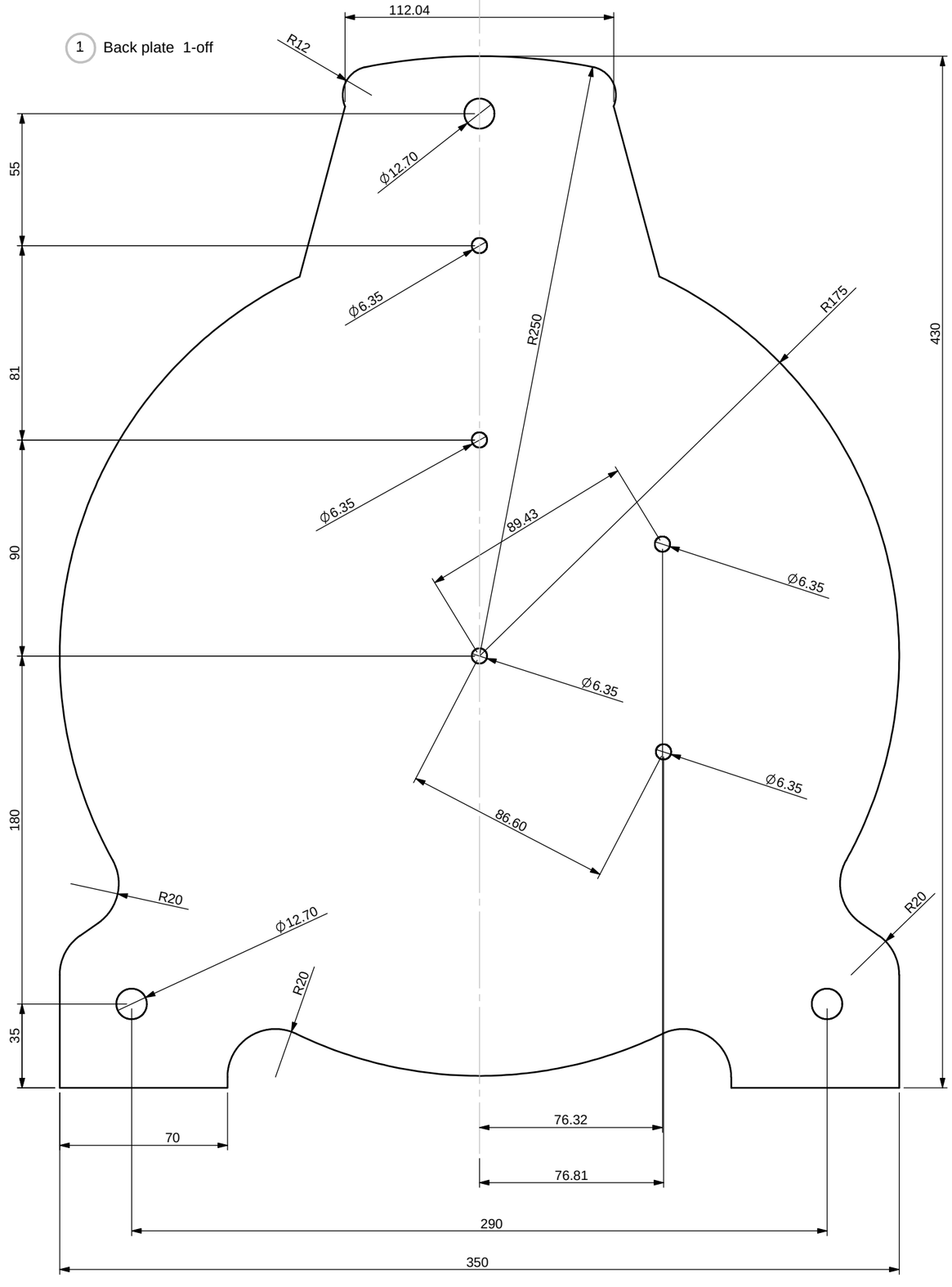
SHT 1 OF 8 SHTS	**LAW WOODEN CLOCK 2**	General Assembly 1	
NTS	ALL DIMENSIONS IN MM 3rd ANGLE PROJECTION UNTOLERANCED DIMS +/- 0.5	JAN 2001	**Designed by:** **BRLAW** **www.woodenclocks.co.uk**



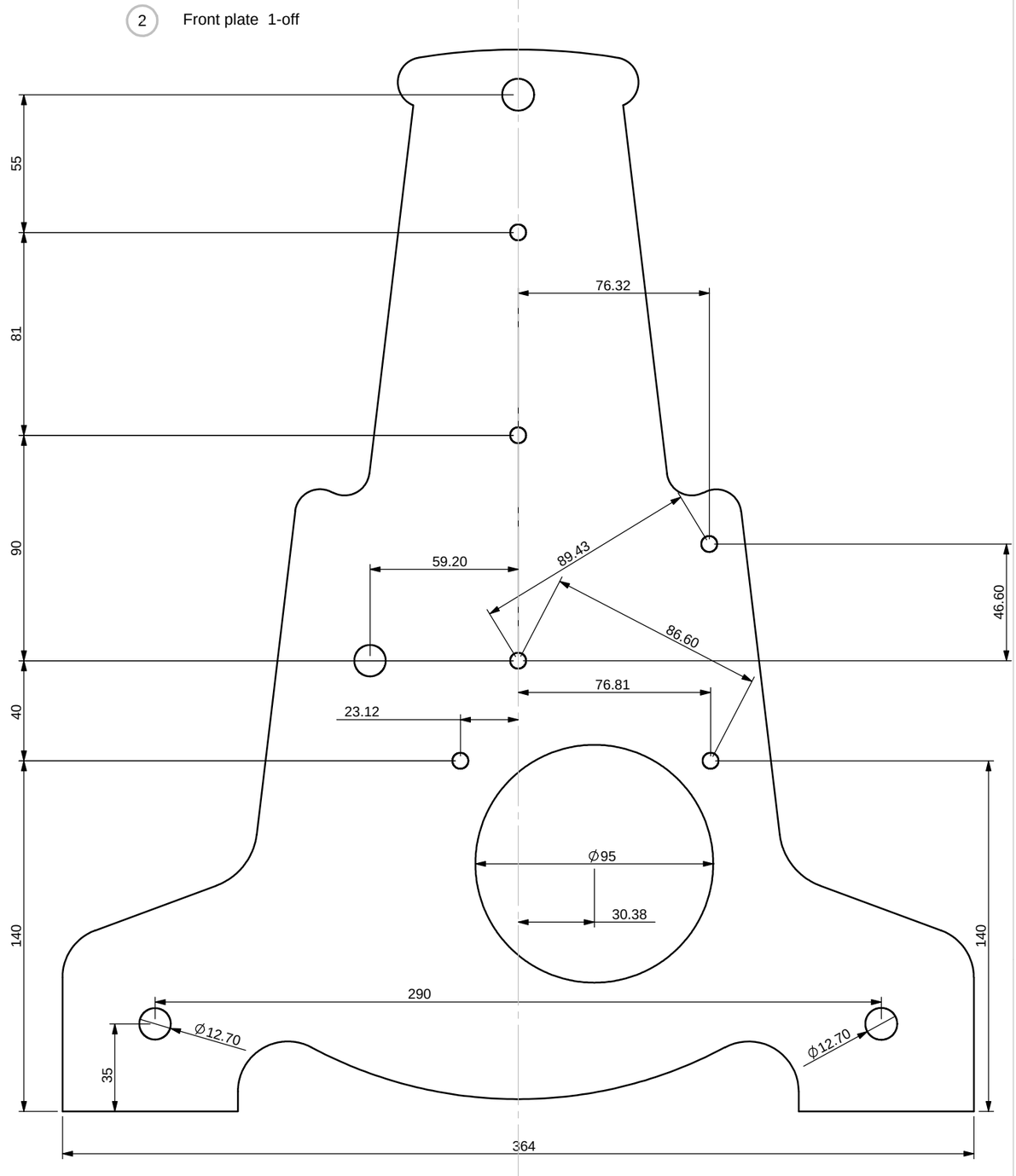
Back plate removed for clarity

SHT 2 OF 8 SHTS	**LAW WOODEN CLOCK 2**	General Assembly 2	
NTS	ALL DIMENSIONS IN MM 3rd ANGLE PROJECTION UNTOLERANCED DIMS +/- 0.5	JAN 2001	**Designed by:** **BRLAW** **www.woodenclocks.co.uk**

1 Back plate 1-off

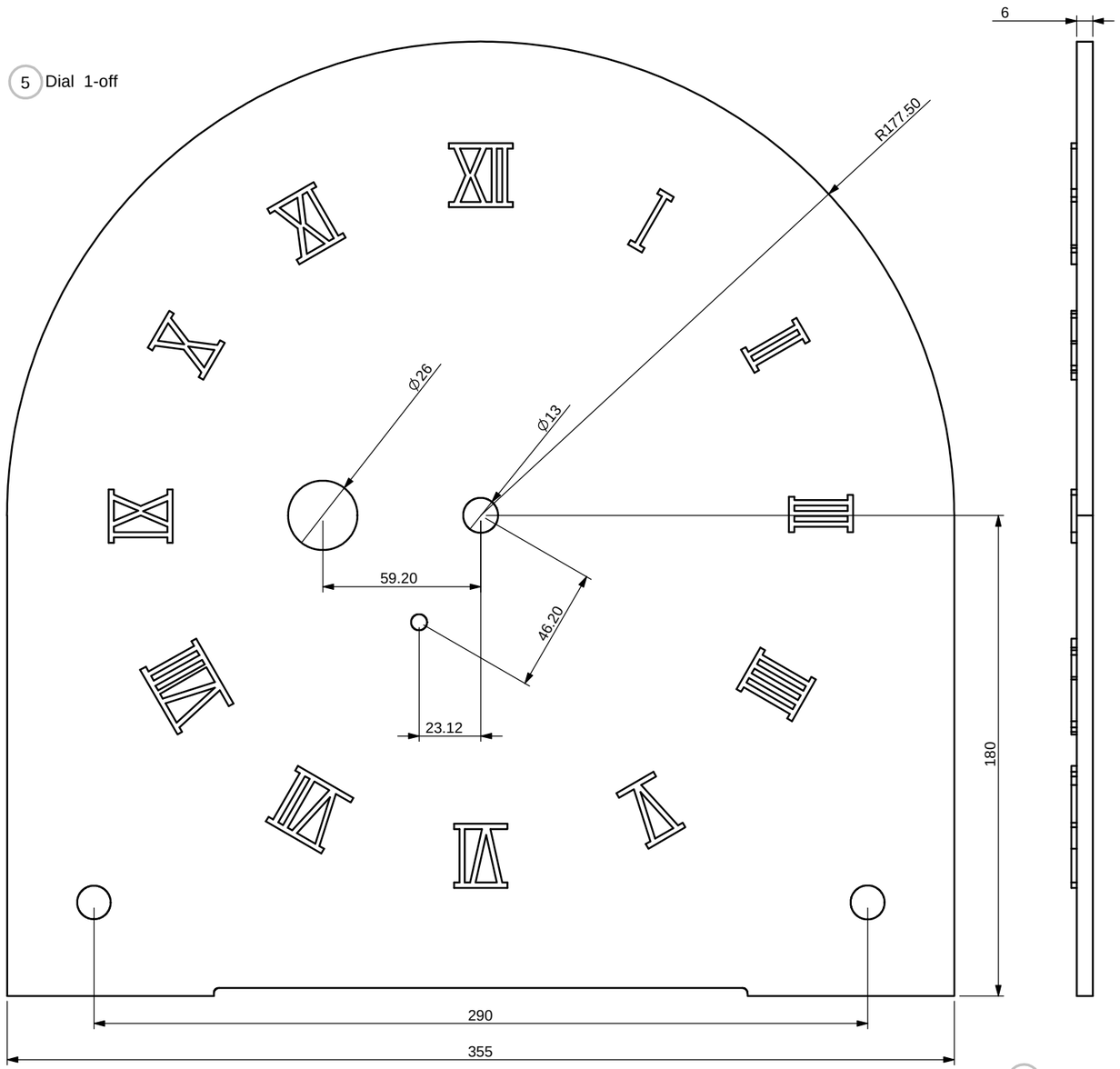


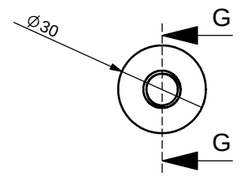
2 Front plate 1-off



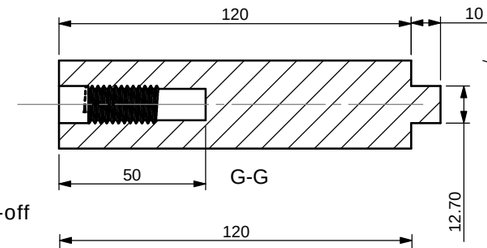
SHT 3 OF 8 SHTS	**LAW WOODEN CLOCK 2**	Frames	
NTS	ALL DIMENSIONS IN MM 3rd ANGLE PROJECTION UNTOLERANCED DIMS +/- 0.5	JAN 2001	**Designed by:** **BRLAW** **www.woodenclocks.co.uk**

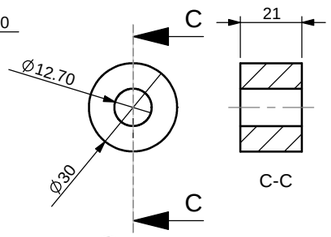
5 Dial 1-off



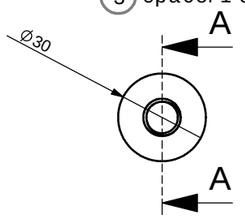


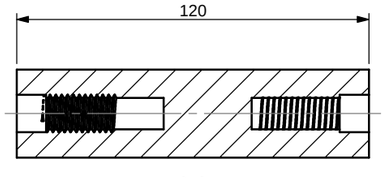
3 Spacer 1-off



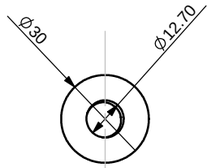


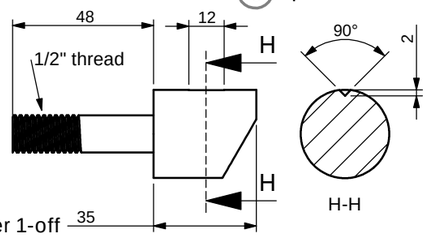
6 Dial spacer 2-off



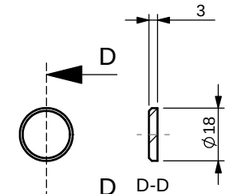


3 Spacer 2-off

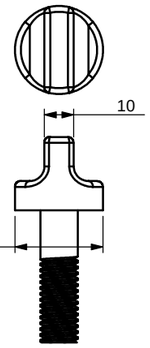




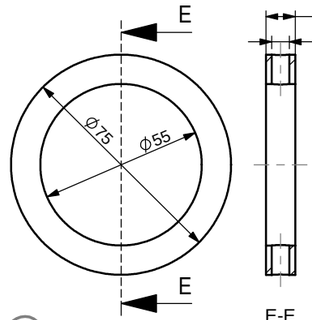
4 Pendulum hanger 1-off



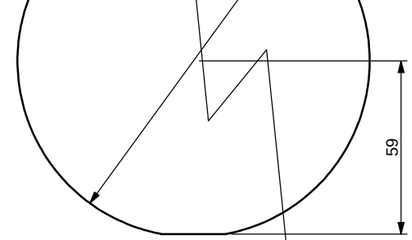
12 Shaft cover 7-off

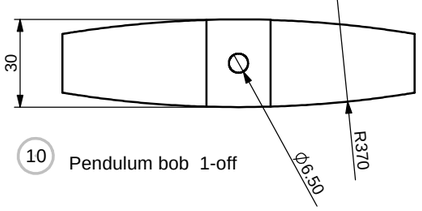


13 Screw 3-off

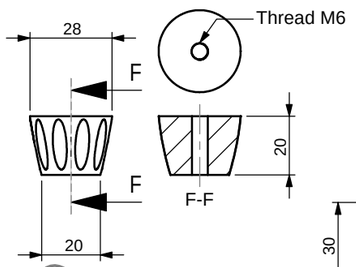


7 Pendulum head 1-off

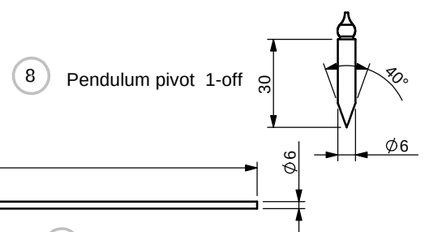




10 Pendulum bob 1-off

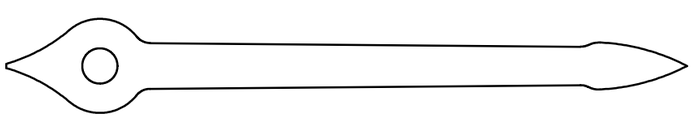


11 Pendulum nut 1-off

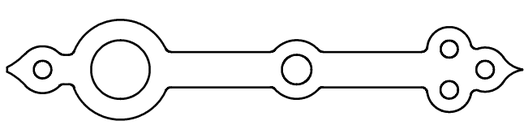


8 Pendulum pivot 1-off

9 Pendulum rod 1-off

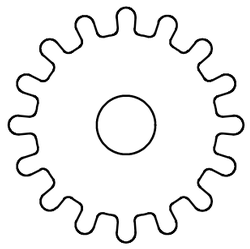


42 Minute Hand 1-off

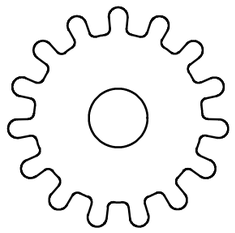


43 Hour hand 1-off

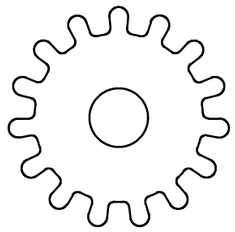
SHT 4 OF 8 SHTS	**LAW WOODEN CLOCK 2**	Frame details	
NTS	ALL DIMENSIONS IN MM 3rd ANGLE PROJECTION UNTOLERANCED DIMS +/- 0.5	JAN 2001	**Designed by:** **BRLAW** **www.woodenclocks.co.uk**



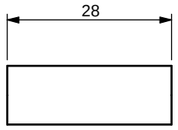
23 Gear 16 teeth 1-off



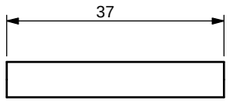
40 Gear 15 teeth 1-off



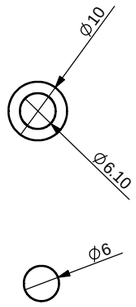
40 Gear 15 teeth 1-off

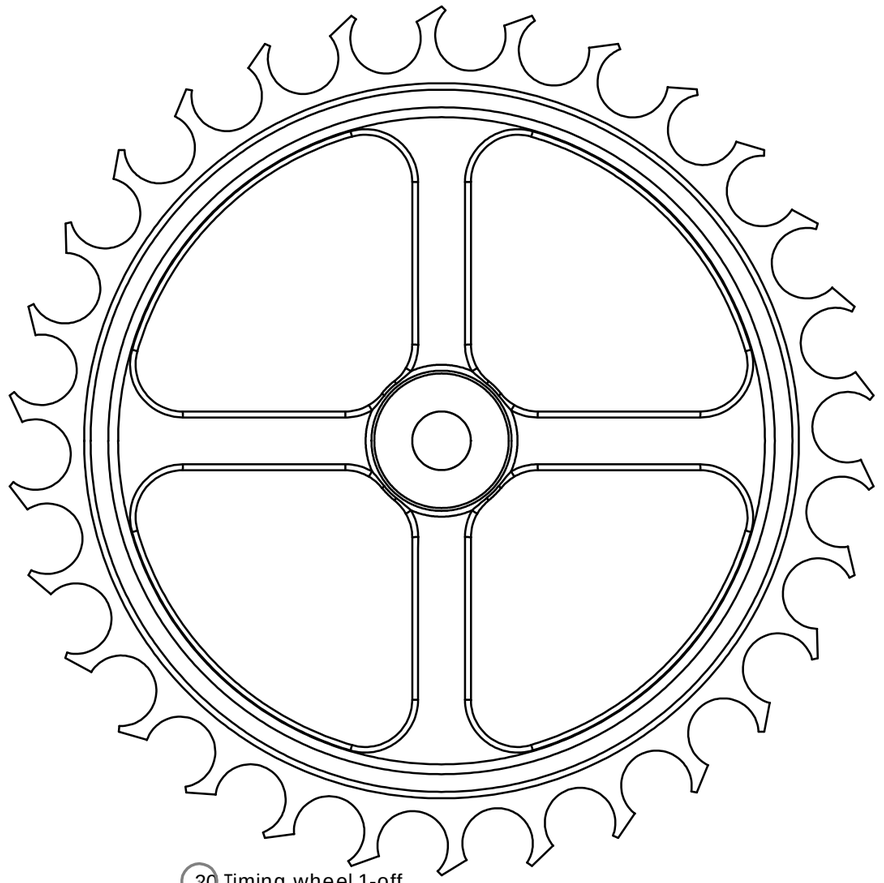


33 Sleeve 28 1-off

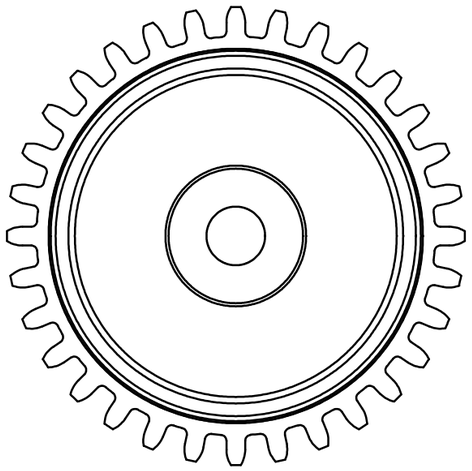


37 Shaft 37 1-off

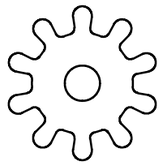




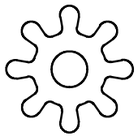
20 Timing wheel 1-off



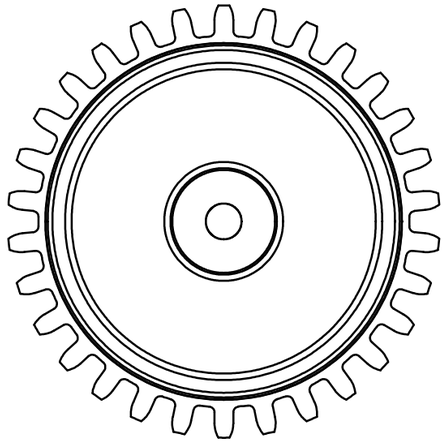
31 Gear 32 teeth 1-off



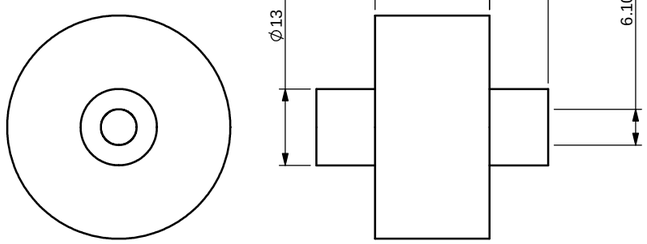
31 Gear 10 teeth 1-off



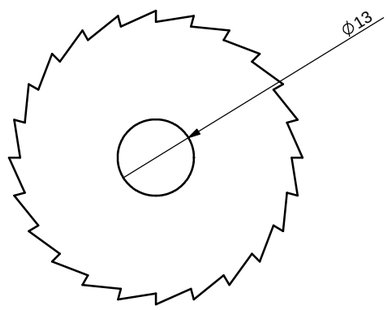
38 Gear 8 teeth 1-off



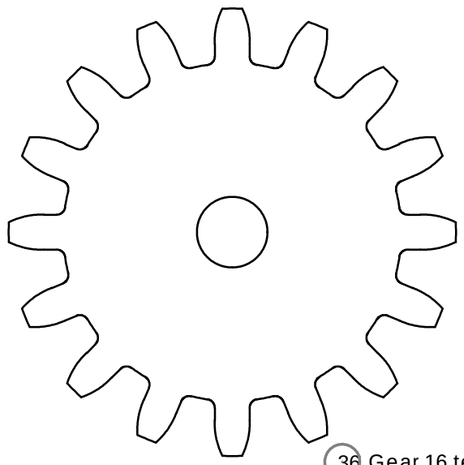
39 Gear 30 teeth 1-off



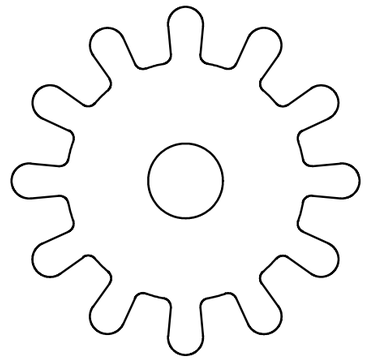
27 Drum 1-off



28 Ratchet 1-off

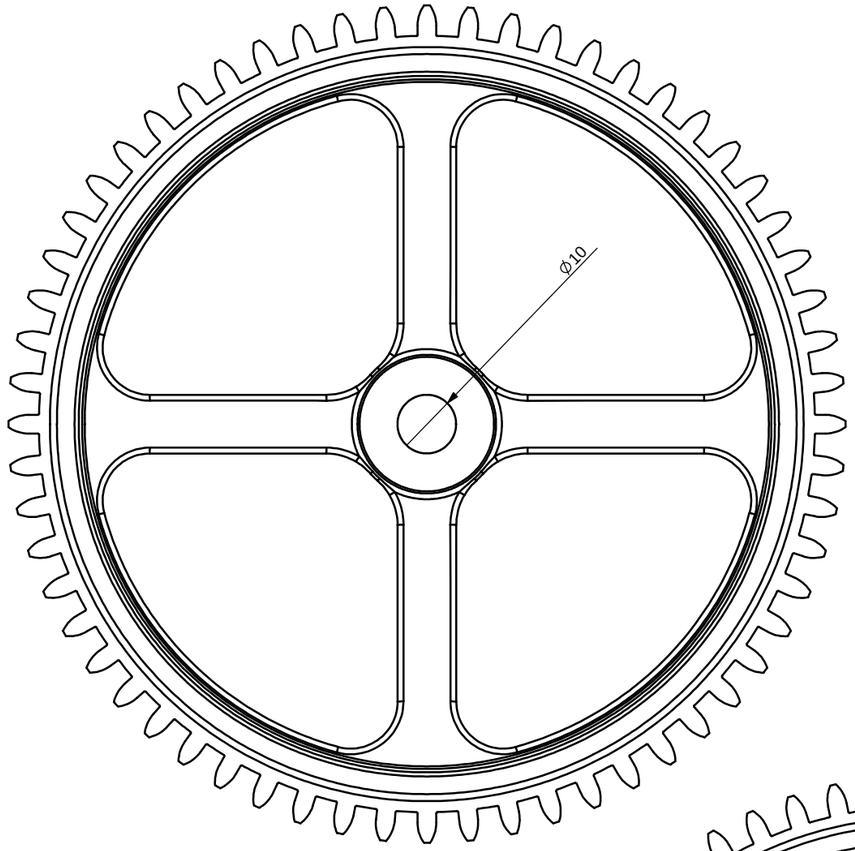


36 Gear 16 teeth DP61-off

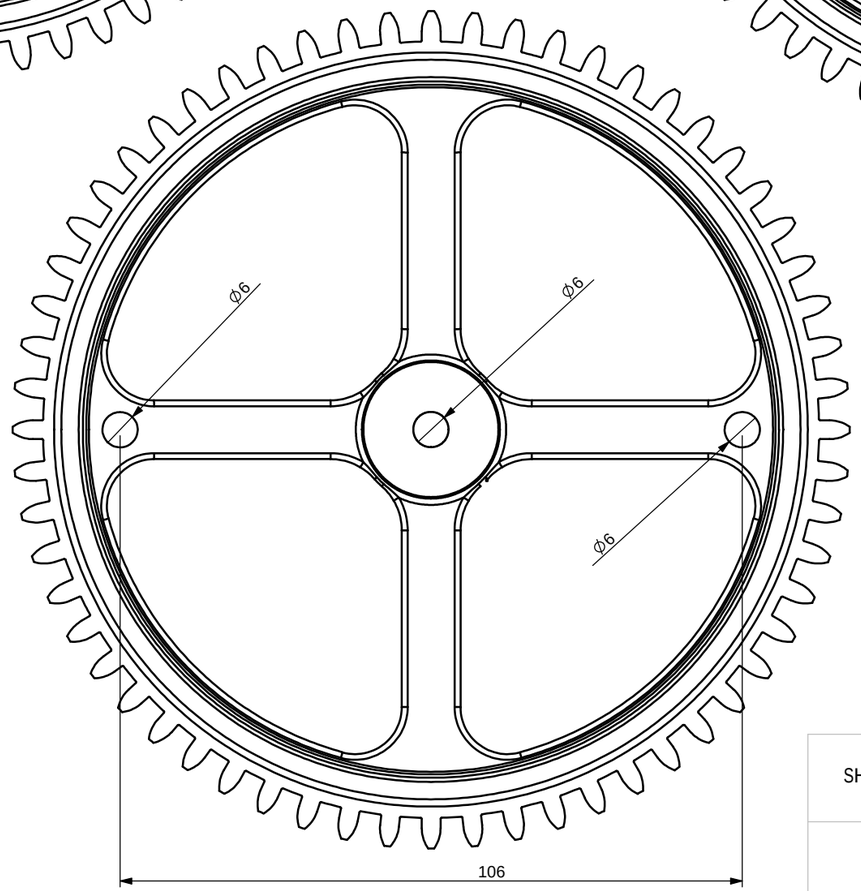


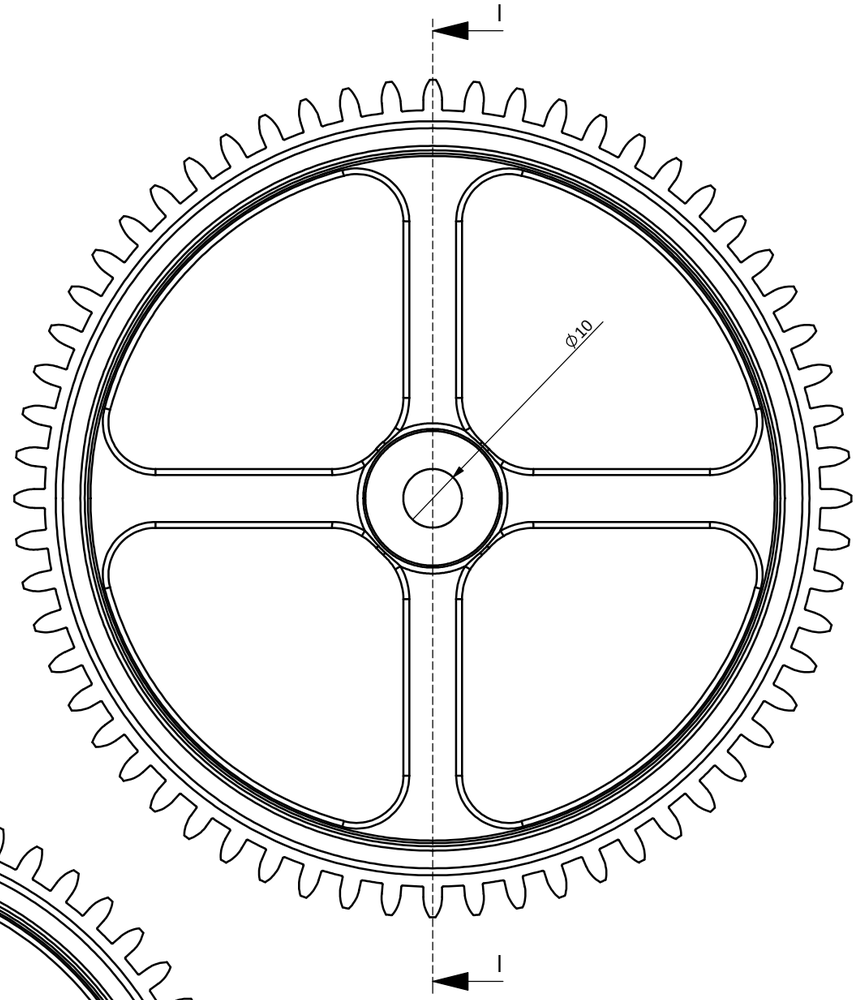
44 Gear 12 teeth 1-off

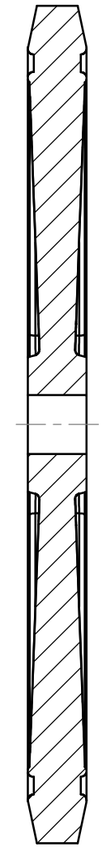
SHT 5 OF 8 SHTS	**LAW WOODEN CLOCK 2**	Gears 1	
NTS	ALL DIMENSIONS IN MM 3rd ANGLE PROJECTION UNTOLERANCED DIMS +/- 0.5	JAN 2001	**Designed by:** **BRLAW** **www.woodenclocks.co.uk**



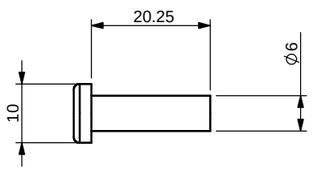
29 Gear 60 teeth 3-off



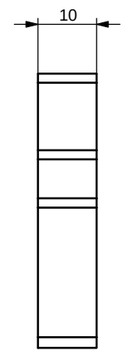


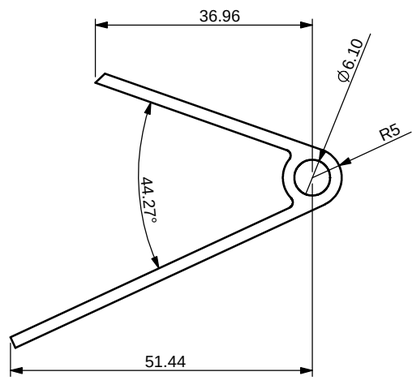


I-I



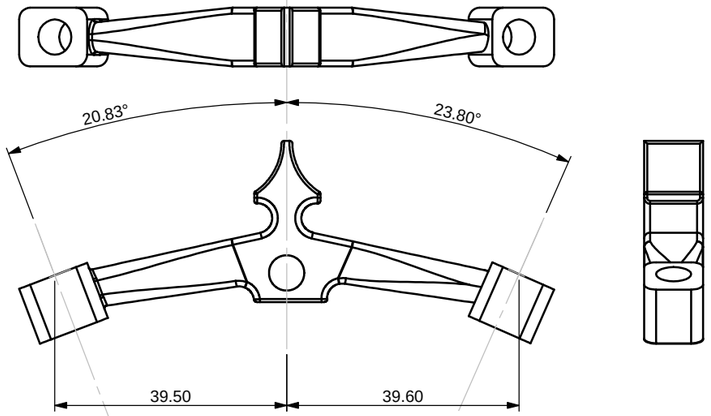
30 Pawl pin 2-off



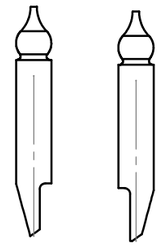


25 Pawl 2-off

SHT 6 OF 8 SHTS	**LAW WOODEN CLOCK 2**	Gears 2	
NTS	ALL DIMENSIONS IN MM 3rd ANGLE PROJECTION UNTOLERANCED DIMS +/- 0.5	JAN 2001	**Designed by:** **BRLAW** **www.woodenclocks.co.uk**

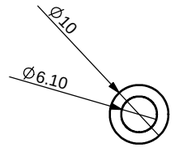


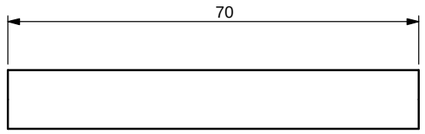
16 Escape 1-off



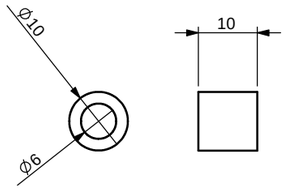
17 Pallet 2 1-off

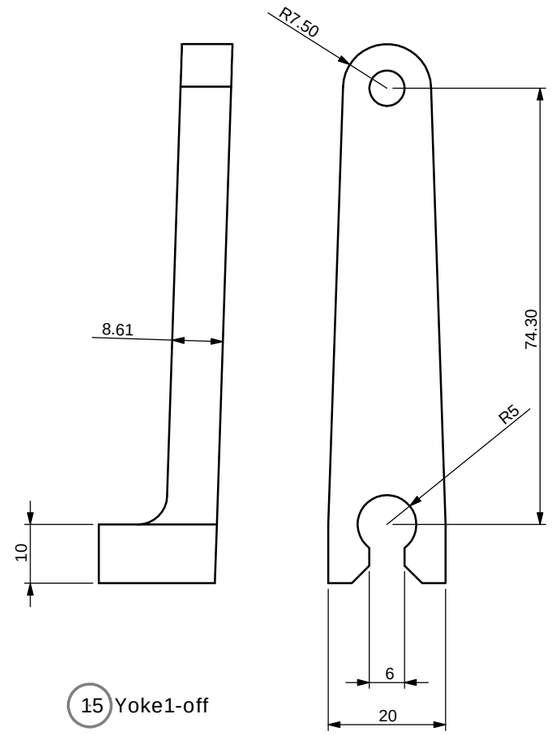
18 Pallet 1 1-off



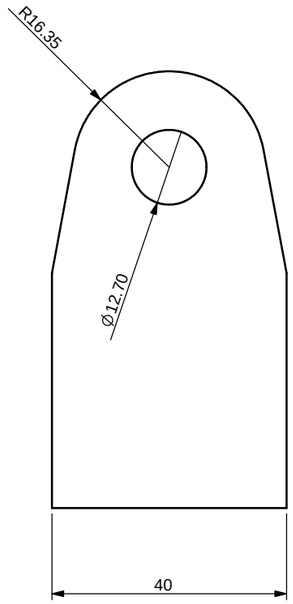


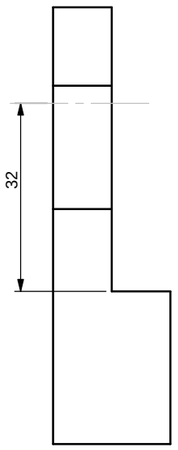
26 Sleeve 70 1-off

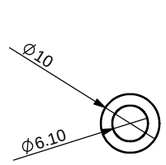


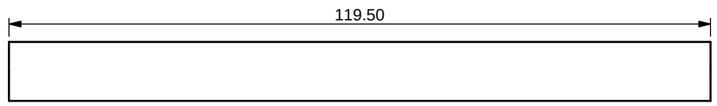


15 Yoke1-off

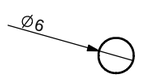


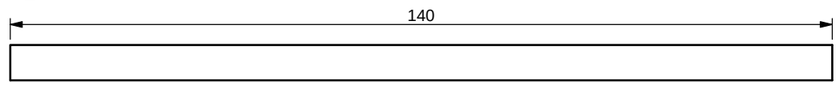




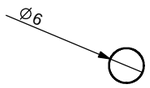


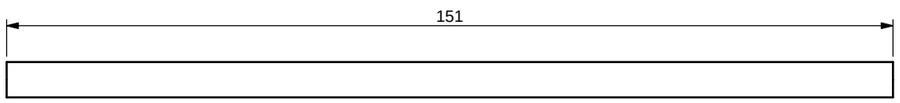
22 Sleeve 119 3-off



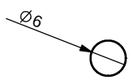


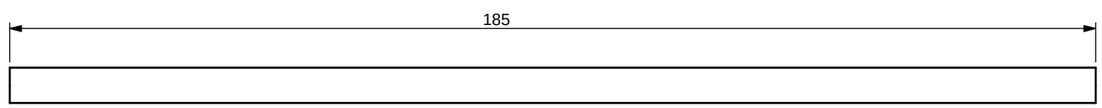
21 Shaft 140 3-off



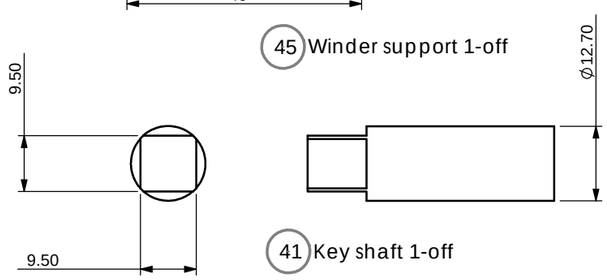


14 Shaft 151 1-off





24 Shaft 185 1-off

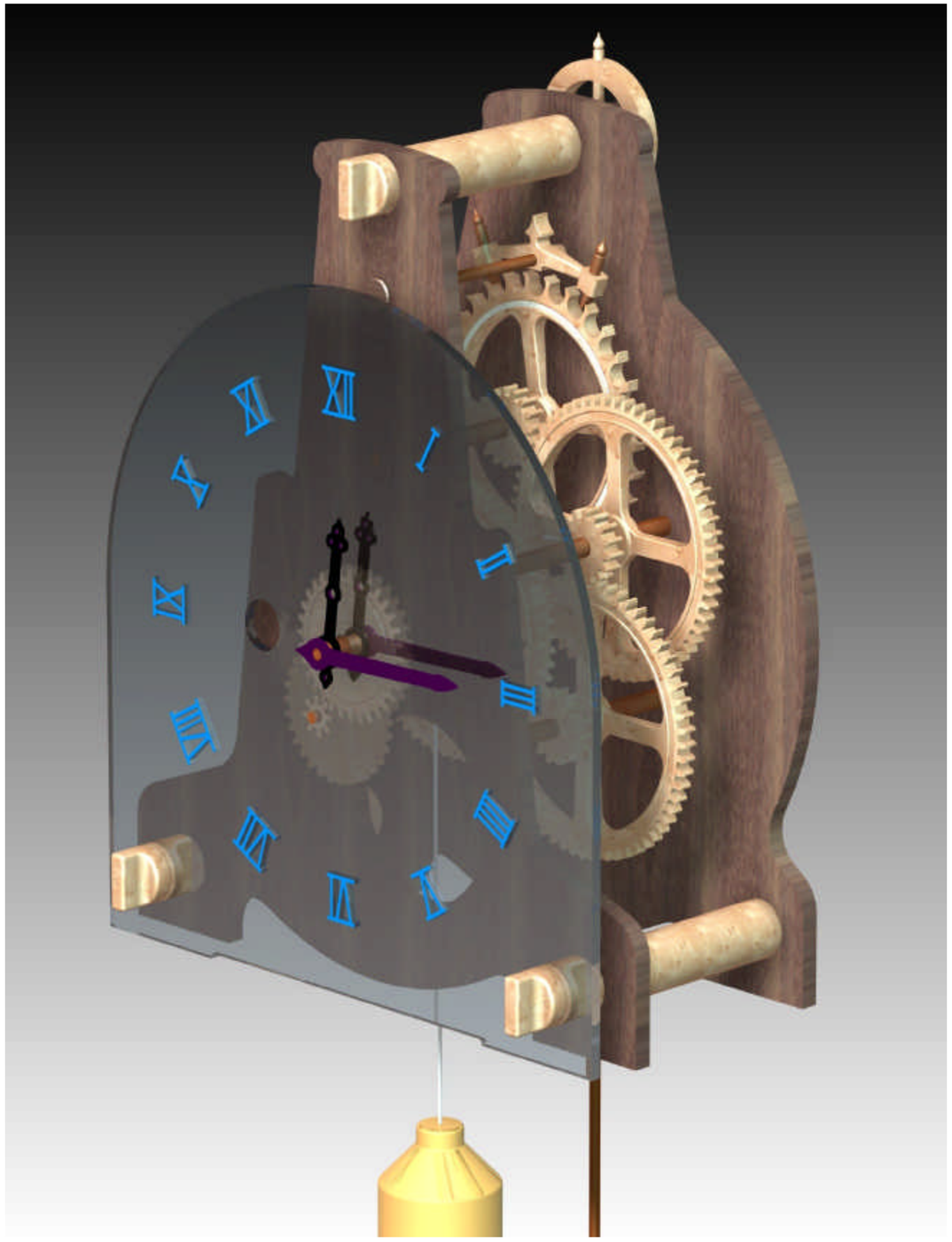


41 Key shaft 1-off

45 Winder support 1-off

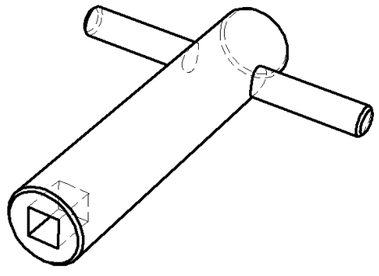
SHT 7 OF 8 SHTS	**LAW WOODEN CLOCK 2**	Details	
NTS	ALL DIMENSIONS IN MM 3rd ANGLE PROJECTION UNTOLERANCED DIMS +/- 0.5	JAN 2001	**Designed by:** **BRLAW** **www.woodenclocks.co.uk**

Woodenclock Clock 2



Notes

- Use close-grained timber such as Beech planed down to a thickness of 1 10 mm for all components unless otherwise stated.
- All shafts for spindles should be made from 6 mm diameter bar.
- Any suitable material can be used for the weight. The mass of the weight will need to be established by experiment, but a good starting point would be 6 lbs.
- Details of the dial numerals are shown for guidance only, the actual form of the numerals is left to your own discretion.. They can be applied by painting or as relief numerals cut from thin sheet.
- The hands are again given for guidance only, although in this instance they are drawn to size so that you can copy these if you wish. They should in any event be cut from thin sheet.
- Where the components are drawn to 1:1 scale you can attach the drawing to the timber using a low tack adhesive, and cut around the profiles. Great care should be taken with this approach when cutting the gear teeth because they need to be cut very accurately to avoid problems when assembling the clock.
- The frame is held together using 3 threaded screws into spacers (3)glued into the back plate. Alternatively pins fitted into holes cross drilled after assembly can be used.
- Care should be taken to adjust the pallets (17 & 18) relative to the timing wheel. They should operate to allow the timing wheel to move incrementally forward when swinging through a small arc of movement of the pendulum. (<10°).
- The pitch of the gears is controlled by the drilling of the hole centres in the front and back frames. It may help to delay the drilling of these holes in the frames until after the gears are first cut and then linished to size. At this point it would help to mount them on two separate pieces of wood and test there free movement one to the other and measure the centre distance between them, so that the hole centres can be drilled at this dimension rather than the theoretical dimension on the drawing.
- The winder used is not drawn on the plans but a simple 'T' bar with a square hole in the end to engage over the end of the square end of the shaft holding the winding gears.



SHT 8 OF 8 SHTS	**LAW WOODEN CLOCK 2**	Instructions	
NTS	ALL DIMENSIONS IN MM 3rd ANGLE PROJECTION UNTOLERANCED DIMS +/- 0.5	JAN 2001	**Designed by:** **BRLAW** **www.woodenclocks.co.uk**